

# EAST Search History

V.S.  
04/19/07

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
|       |      | (((((data near rate) or throughput or (bandwidth)) and conjugate) same (phase near (offset or reference or difference)))                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/18 19:23 |
|       |      | \  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/18 13:11 |
|       |      | (determin\$3 or classif\$5) near5 (packet or symbol or frame or segment))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/18 12:04 |
|       |      | (determin\$3 or classif\$5) near5 (number near2 (training near symbol))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/18 11:52 |
|       |      | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 ((size or length or number) near2 (training near symbol)))       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/18 11:36 |
|       |      | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 ((size or length) or (number near2 (training near symbol))))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/18 11:36 |
|       |      | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 ((size or length) or (number near2 (training near symbol))))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/18 11:36 |
|       |      | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 (number near3 ((long or short) near2 symbols)))) same preamble   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/17 20:39 |
|       |      | ((calculat\$3 or measur\$3 or detect\$3 or determin\$3 or monitor\$3) near10 training) same (phase near6 differ\$4) and self near correlation) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/04/17 13:30 |

## EAST Search History

|    |     |   |   |     |    |                  |
|----|-----|---|---|-----|----|------------------|
|    |     | ((calculat\$3 or measur\$3 or detect\$3 or determin\$3 or monitor\$3) near10 training) same (phase near6 differ\$4) and 9self near correlation) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:30 |
|    |     | (phase near differ\$4) and (self near correlation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:23 |
| L3 | 8   | (computer adj program adj product) and (phase adj difference) and (training near symbols) and (threshold)                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/19 12:47 |
| S1 | 849 | (training near2 symbol) and phase and (channel near2 estimat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 17:56 |
| S2 | 28  | S1 and "370"/\$.ccls. and "455"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 11:22 |
| S3 | 399 | S1 and OFDM   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 10:21 |
| S4 | 199 | (preamble same (training near2 symbol)) and phase and (channel near2 estimat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 10:23 |
| S5 | 521 | ((plurality or multiple) near3 (symbol or frame or segment)) and (phase near2 difference) and (channel near2 estimat\$3)                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 11:21 |
| S6 | 33  | S5 and "370"/\$.ccls. and "455"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 19:13 |
| S7 | 11  | S5 and "370"/\$.ccls. and "455"/\$.ccls. and "375"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 12:16 |

## EAST Search History

|     |     |  |   |     |    |                  |
|-----|-----|--|---|-----|----|------------------|
| S9  | 144 | ((calculat\$3 or measur\$3 or detect\$3) near10 ((symbol or frame or segment or preamble) near5 training) and ((combin\$5 or add\$3) near2 (symbol or preamble)))                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:20 |
| S11 | 133 | S9 and ("370"/\$.ccls. or "455"/\$.ccls. or "375"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 12:17 |
| S12 | 34  | ((calculat\$3 or measur\$3 or detect\$3) near10 ((symbol or frame or segment or preamble) near5 training) and (phase near6 difference) and ((combin\$5 or add\$3) near2 (symbol or preamble))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:21 |
| S13 | 184 | ((calculat\$3 or measur\$3 or detect\$3 or determin\$3 or monitor\$3) near10 training) same (phase near6 differ\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 12:45 |
| S14 | 179 | S13 not S12  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:49 |
| S15 | 44  | S13 and (channel near2 estimat\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 12:46 |
| S16 | 39  | S15 not S12  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 12:46 |
| S17 | 184 | ((calculat\$3 or measur\$3 or detect\$3 or determin\$3 or monitor\$3) near10 training) same (phase near6 differ\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:30 |
| S18 | 70  | S17 and threshold  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:20 |

## EAST Search History

|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S19 | 7603 | 370/335,342,479,281,208,537.<br>ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:22 |
| S20 | 335  | S19 and OFDM and CDMA and<br>wireless  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:47 |
| S21 | 28   | S20 and (training near5 symbol)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:47 |
| S22 | 992  | S19 and OFDM   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:47 |
| S23 | 116  | S22 and (training near5 symbol)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 20:41 |
| S24 | 83   | S23 and (@ad<"20030917" or<br>@rlad<"20030917")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 20:42 |
| S25 | 34   | (calculat\$3 or measur\$3 or<br>detect\$3) near10 ((symbol or<br>frame or segment or preamble)<br>near5 training) and (phase near6<br>difference) and ((combin\$5 or<br>add\$3) near2 (symbol or<br>preamble)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:52 |
| S26 | 179  | S17 not S25  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:49 |
| S27 | 139  | S26 and (@ad<"20030917" or<br>@rlad<"20030917")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 10:41 |

## EAST Search History

|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S28 | 29   | S25 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 18:52 |
| S29 | 521  | ((plurality or multiple) near3 (symbol or frame or segment)) and (phase near2 difference) and (channel near2 estimat\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 19:13 |
| S30 | 33   | S29 and "370"/\$.ccls. and "455"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/16 19:13 |
| S31 | 31   | S30 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 15:22 |
| S32 | 137  | S27 not S23  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:19 |
| S33 | 1991 | ((plurality or multiple) near5 ((training near symbol) or (pilot near signal)))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 11:41 |
| S34 | 362  | ((plurality or multiple) near5 ((training near symbol) or (pilot near signal)) same (add\$3 or cumulative or combin\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 11:42 |
| S35 | 109  | ((plurality or multiple) near5 ((training near symbol) or (pilot near symbol)) same (add\$3 or cumulative or combin\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 12:07 |
| S36 | 92   | S35 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 11:47 |
| S37 | 56   | S36 and (channel near estimat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 12:07 |

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|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| S38 | 5811 | 370/203,206,208,210,338.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 12:07 |
| S39 | 13   | S38 and (((plurality or multiple)<br>near5 ((training near symbol) or<br>(pilot near symbol)) same (add\$3<br>or cumulative or combin\$3)))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:12 |
| S40 | 36   | S36 not S37  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:17 |
| S41 | 0    | S37 and (self near correlation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:18 |
| S42 | 184  | ((calculat\$3 or measur\$3 or<br>detect\$3 or determin\$3 or<br>monitor\$3) near10 training) same<br>(phase near6 differ\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:19 |
| S43 | 7618 | 370/335,342,479,281,208,537.<br>ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:19 |
| S44 | 995  | S43 and OFDM   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:19 |
| S45 | 116  | S44 and (training near5 symbol)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 19:50 |
| S46 | 34   | (calculat\$3 or measur\$3 or<br>detect\$3) near10 ((symbol or<br>frame or segment or preamble)<br>near5 training) and (phase near6<br>difference) and ((combin\$5 or<br>add\$3) near2 (symbol or<br>preamble)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:19 |



## EAST Search History

|     |     |  |   |     |    |                  |
|-----|-----|--|---|-----|----|------------------|
| S47 | 179 | S42 not S46  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:19 |
| S48 | 139 | S47 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:23 |
| S49 | 137 | S48 not S45  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:19 |
| S50 | 102 | (phase near differ\$4) and (self near correlation)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:23 |
| S51 | 93  | S50 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:38 |
| S52 | 5   | S51 and ((training or pilot) near symbol)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:24 |
| S53 | 0   | ((calculat\$3 or measur\$3 or detect\$3 or determin\$3 or monitor\$3) near10 training) same (phase near6 differ\$4) and (self near correlation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:31 |
| S54 | 10  | ((calculat\$3 or measur\$3 or detect\$3 or determin\$3 or monitor\$3) near10 training) same (phase near6 differ\$4) and (cross near correlation) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:32 |
| S55 | 245 | atheros communications inc.as.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:33 |
| S56 | 9   | S55 and (self near correlation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:36 |

## EAST Search History

|     |       |   |   |     |    |                  |
|-----|-------|---|---|-----|----|------------------|
| S57 | 1     | S55 and (cross near correlation)                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:38 |
| S58 | 17229 | (cross near correlation)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:38 |
| S59 | 107   | (cross near correlation) and (self near correlation)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:38 |
| S60 | 84    | S59 and (@ad<"20030917" or @rlad<"20030917")            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:38 |
| S61 | 10    | S60 and ((training near symbol) or (pilot near symbol)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 13:39 |
| S62 | 45    | "5214687"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 15:07 |
| S63 | 2     | "5214687".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 15:08 |
| S64 | 3     | angle near5 (self near correlation)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 15:10 |
| S65 | 2     | angle near5 (self\$correlation)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 15:10 |
| S66 | 70    | S42 and threshold                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 15:22 |



## EAST Search History

|     |     |  |   |     |    |                  |
|-----|-----|--|---|-----|----|------------------|
| S67 | 58  | S66 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 18:10 |
| S68 | 2   | "6930989"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 18:49 |
| S69 | 11  | S45 and "802.11a" and (long near symbol)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/17 19:51 |
| S70 | 6   | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 (number near3 ((long or short) near2 symbols))) same preamble  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 10:39 |
| S71 | 623 | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 (size or length) or (number near3 ((long or short) near2 symbols))) same preamble                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 11:34 |
| S72 | 114 | S71 and OFDM   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 10:41 |
| S73 | 46  | S72 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 11:37 |
| S74 | 2   | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 (size or length) or (number near3 ((long or short) near2 symbols))) same preamble) near10 (phase near differ\$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 11:07 |
| S75 | 4   | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 (size or length) or (number near3 ((long or short) near2 symbols))) same preamble) same (phase near difference)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 11:23 |

## EAST Search History

|     |        |  |   |     |    |                  |
|-----|--------|--|---|-----|----|------------------|
| S76 | 628900 | ((calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 (size or length) or (number near3 ((long or short) near2 (training near symbol)))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 11:35 |
| S77 | 48     | (calculat\$3 or classify\$3 or determin\$3 or measur\$3 or estimat\$3) near5 ((size or length or number) near2 (training near symbol))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 11:50 |
| S78 | 34     | S77 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:16 |
| S79 | 14     | (determin\$3 or classif\$5) near5 (number near2 (training near symbol))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:04 |
| S80 | 163177 | (determin\$3 or classif\$5) near5 (packet or symbol or frame or segment)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:16 |
| S81 | 3181   | S80 and OFDM   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:05 |
| S82 | 345    | S81 and (phase near difference)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:05 |
| S83 | 274    | S82 and (@ad<"20030917" or @rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:05 |
| S84 | 56     | S83 and (training near symbol)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:05 |
| S85 | 10440  | (classif\$5) near5 (packet or symbol or frame or segment)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:09 |

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|     |     |   |   |     |    |                  |
|-----|-----|---|---|-----|----|------------------|
| S86 | 128 | S85 and OFDM  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 12:16 |
| S87 | 37  | S86 and (@ad<"20030917" or<br>@rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:11 |
| S88 | 6   | S85 same (phase near difference)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:11 |
| S89 | 101 | S85 and (phase near difference)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 15:04 |
| S90 | 80  | S89 and (@ad<"20030917" or<br>@rlad<"20030917")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:56 |
| S91 | 25  | (determin\$3) near10 (number<br>near2 (training near symbol))                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:46 |
| S92 | 3   | (invert\$3) near10 (sign near2<br>(training near symbol))                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:52 |
| S93 | 4   | (invert\$3) near10 (sign near10<br>(training near2 symbol))                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:53 |
| S94 | 0   | ((invert\$3) near10 (sign near10<br>(training near2 symbol))) and<br>(phase near2 difference) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:56 |
| S95 | 47  | ((invert\$3) near10 (sign near10<br>(symbol))) and (phase near2<br>difference)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:56 |

## EAST Search History

|      |       |  |   |     |    |                  |
|------|-------|--|---|-----|----|------------------|
| S96  | 45    | ((invert\$3) near10 (sign near10 (symbol))) and (phase near difference)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:56 |
| S97  | 16    | ((invert\$3) near5 (sign near5 (symbol))) and (phase near difference)          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 13:56 |
| S98  | 15    | S97 and (@ad<"20030917" or @rlad<"20030917")                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 15:03 |
| S99  | 16364 | (classif\$7) with (offset or phase or transition or difference)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 15:02 |
| S100 | 268   | (classif\$7) with (phase near5 (offset or transition or difference))           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 15:03 |
| S101 | 205   | S100 and (@ad<"20030917" or @rlad<"20030917")                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 18:43 |
| S102 | 205   | S101 not S84   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 15:03 |
| S103 | 202   | S101 not S90   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 15:04 |
| S104 | 5     | (determin\$3) near10 (sign near5 (real near part)) and conjugate               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 18:42 |
| S105 | 0     | (determin\$3) near10 (date near rate) and conjugate and (phase near reference) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 18:42 |

## EAST Search History

|          |     |  |   |     |    |                  |
|----------|-----|--|---|-----|----|------------------|
| S10<br>6 | 0   | (determin\$3) near10 ((date near rate) and conjugate and (phase near reference))                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 18:42 |
| S10<br>7 | 0   | (determin\$3) near10 ((data near rate) and conjugate and (phase near reference))                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 18:43 |
| S10<br>8 | 645 | (((data near rate) or throughput or (bandwidth)) and conjugate and (phase near reference))                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 19:23 |
| S10<br>9 | 76  | S108 and training  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 19:17 |
| S11<br>0 | 68  | S109 and (@ad<"20030917" or @rlad<"20030917")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 19:24 |
| S11<br>1 | 102 | (((data near rate) or throughput or (bandwidth)) and conjugate) same (phase near (offset or reference or difference))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 19:24 |
| S11<br>2 | 41  | S111 and (training or pilot)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 19:24 |
| S11<br>3 | 38  | S112 and (@ad<"20030917" or @rlad<"20030917")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 19:59 |
| S11<br>4 | 2   | "5892796".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 20:01 |
| S11<br>5 | 2   | "20060251183"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/18 20:01 |

## EAST Search History

|          |    |  |   |     |    |                  |
|----------|----|--|---|-----|----|------------------|
| S11<br>6 | 8  | (determin\$3) near10 (((data near<br>rate) or throughput or bandwidth)<br>near5 (training near (symbol or<br>sequence)))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/19 11:01 |
| S11<br>7 | 7  | (determin\$3 or calculat\$3 or<br>count\$3 or examin\$3 or<br>measur\$3) near5 (((data near<br>rate) or throughput or bandwidth)<br>near5 (training near (symbol or<br>sequence))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/19 11:01 |
| S11<br>8 | 3  | S116 not S117  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/19 11:01 |
| S11<br>9 | 16 | (determin\$3) near10 (((data near<br>rate) or throughput or bandwidth)<br>same (training near (symbol or<br>sequence or segment or frame or<br>packet)))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/19 11:02 |
| S12<br>0 | 11 | S119 not (S116 and S117)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/04/19 11:02 |

V.S.  
04/19/07